

Texas State Soil and Water Conservation Board Clean Water Act §319(h) Nonpoint Source Grant Program FY 2016 Workplan 16-11

	SUMMARY PAGE					
Title of Project	Implementation of the Mi	ll Creek Watershed Protection Plan				
Project Goals	 Facilitate implementation of management measures identified in the Mill Creek Watershed Protection Plan. Conduct regularly scheduled stakeholder meetings to provide the Partnership with updates on progress and seek stakeholder input and recommendations on needed activities. Assist the Partnership in identifying and developing proposals to acquire funding for implementation projects, and in managing and tracking implementation efforts. Coordinate and/or conduct water resources and related environmental outreach/education efforts across the watershed. Communicate water quality conditions to the public and the Partnership in order to support adaptive management and expand public knowledge and participation in the Mill Creek project. 					
Project Tasks	(1) Project Administration; (2) Quality Assurance; (3) Conduct water quality monitoring and data analysis to support adaptive implementation of the Mill Creek Watershed Protection Plan; (4) Facilitate and Promote Watershed Protection Plan Implementation.					
Measures of Success	Evaluate progress tov	istance to the Mill Creek Partnership ward WPP Implementation ge of citizens, landowners and agricules identified in WPP	lltural producers of			
Project Type	ĕ	cation (); Planning (); Assessment (); Gro	undwater ()			
Status of Waterbody on	Segment ID	Parameter of Impairment or Concern	Category			
2014 Texas Integrated	1202K	Bacteria	5c			
Report		Habitat	CS			
Project Location (Statewide or Watershed and County)	Mill Creek in Austin and	Washington Counties				
Key Project Activities	Hire Staff (X); Surface Water Quality Monitoring (X); Technical Assistance (X); Education (X); Implementation (X); BMP Effectiveness Monitoring (); Demonstration (); Planning (); Modeling (); Bacterial Source Tracking (); Other ()					
2012 Texas NPS	• Component 1 LTG 1, Objectives 1, 3, 6, 7					
Management Program	STG 2, Objective D					
Reference	• STG 3, Objective A, B, D, G					
Project Costs	Federal \$250,000 Non-Federal \$164,824 Total \$414,824					
Project Management	Texas A&M AgriLife	e Extension Service, Department of Soil an	d Crop Sciences			
Project Period	November 1, 2016 – June 30, 2019					

Part I – Applicant Information

Applicant									
Project Lead	Project Lead Jake Mowrer								
Title		Assistant Profes	sor, Depart	ment of S	oil a	nd Crop Sci	ences		
Organization	1	Texas A&M Ag	riLife Exte	nsion Serv	vice				
E-mail Addr	ess	jake.mowrer@ta	amu.edu						
Street Addre	ess	Extension Soil a	and Crop So	ciences					
	2474 TAMU								
City	City College Station County Brazos State Texas Zip Code 77843						77843		
Telephone N	Telephone Number 979-845-2425 Fax Number 979-845-0604								

Project Co-	-Lead	Ward Ling	Ward Ling						
Title		Extension Progra	Extension Program Specialist						
Organizatio	on	Texas A&M Ag	riLife Exte	ension Ser	vice				
E-mail Add	dress	wling@tamu.edu	wling@tamu.edu						
Street Add	ress	Extension Soil a	nd Crop S	ciences					
		2474 TAMU	-						
City	College S	tation	ion County Brazos State Texas Zip Code 77843						
Telephone	Number	979-845-6980							

Project Partners	
Names	Roles & Responsibilities
Texas State Soil and Water Conservation Board (TSSWCB)	Provide state oversight and management of all project activities and ensure coordination of activities with related projects and TCEQ.
Texas A&M AgriLife Extension Service, Department of Soil and Crop Sciences (Extension)	Provide project administration and coordination. Serve as watershed coordinator, project reporting, provide assistance for stakeholder relations, and support the implementation of the WPP. Provide coordination of ongoing implementation efforts.
Mill Creek Watershed Partnership	Collaborate as critical local stakeholders and play a lead role in communicating with other local stakeholders.
Austin and Washington County Soil and Water Conservation Districts (SWCD 347 & 348)	Collaborate with SWCD 347 and 348 to track implementation of BMPs.
Houston-Galveston Area Council (H-GAC)	Conduct targeted water quality monitoring.

Part II – Project Information

Project Type									
Surface Water	X	Grou	ındwater						
Does the project implement recommendations made in (a) a completed WPP, (b) an adopted TMDL, (c) an approved I-Plan, (d) a Comprehensive Conservation and Management Plan developed under CWA §320, (e) the <i>Texas Coastal NPS Pollution Control Program</i> , or (f) the <i>Texas Groundwater Protection Strategy</i> ?									
If yes, identify the	docume	ent.	The Mill C	reek Wa	ntershed Protection Plan				
If yes, identify the agency/group that developed and/or approved the document. Mill Creek Watershed Partnership, facilitated by Texas A&M AgriLife Developed 2015									
	Extension and accepted by EPA								

Watershed Information				
Watershed or Aquifer Name(s)	Hydrologic Unit Code (12 Digit)	Segment ID	Category on 2012 IR	Size (Acres)
Mill Creek	1207010402	1202K	5c	263,450

Water Quality Impairment

Describe all known causes (i.e., pollutants of concern) and sources (e.g., agricultural, silvicultural) of water quality impairments or concerns from any of the following sources: 2014 Texas Integrated Report, Clean Rivers Program Basin Summary/Highlights Reports, or other documented sources.

Mill Creek (Segment 1202K) is a 263,450-acre watershed in the Brazos River Basin that is identified as impaired on the 2014 303(d) list due to bacterial contamination. Segment 1202K is listed in the 2014 Integrated Report as impaired and utilized 26 samples for assessment taken during the 7-year period between December 2005 and November 2012.. The geometric mean of these data for *E. coli* bacteria was 191.85 colony forming units per 100 milliliters (cfu/100 mL), which exceeds the state standard of 126 cfu/100 mL.

The 2014 Texas Integrated Report lists the source of the bacteria impairment for Mill Creek as unknown. Watershed reconnaissance performed on Mill Creek in 2007 as part of an RUAA noted that land use in the watershed is used predominantly for agricultural purposes. The RUAA also noted the presence of three wastewater treatment plants in the watershed.

A thorough evaluation of watershed characteristics was performed during the development of the Mill Creek WPP as part of TSSWCB project 14-57. Results indicated that potential cases for impairment included urban, agricultural, and wastewater nonpoint source pollution. The WPP identified a combination of management measures aimed at addressing these nonpoint sources.

In addition, the 2011 Brazos River Basin Highlights Report indicated concerns for bacteria and an impaired fish community; suggesting that Mill Creek had poor habitat to support a large and diverse fish population. The 2012 and 2013 Brazos River Basin Highlights Reports identify Mill Creek as not supporting a designated use due to bacteria impairment.

Project Narrative

Problem/Need Statement

A Recreational Use Attainability Analysis (RUAA) was conducted on Mill Creek in 2007. This was the first such analysis conducted in the state, and became the template for future recreational use analyses. Results of the analysis showed that Mill Creek currently supports, and has historically supported, contact recreation.

In 2013, the TSSWCB and Extension identified Mill creek for WPP development due to two primary factors: 1) it had been listed as impaired due to bacteria levels in exceedance of the recreational contact use standard, and 2) the aforementioned RUAA had concluded the recreational contact use designation and concurrent water-quality standards were appropriate. The TSSWCB projects 14-57 and 15-54 entitled *Phase 1: Data Collection and Development of Essential Components for the Mill Creek Watershed Protection Plan* and *Phase 2: Development of a Watershed Protection Plan for Mill Creek*, respectively, began in 2014. These projects included water quality monitoring, water quality modeling, and WPP development. The WPP development was a stakeholder driven process led by Extension with vital support from TSSWCB. The Mill Creek Watershed Partnership Steering Committee included local officials, land and business owners and citizens and is supported by state and federal agency partners. With technical assistance from project staff, the Steering Committee identified issues that are of particular importance to the surrounding communities, contributed information on land use and activities that helped to identify potential sources of bacteria, and guided development of the WPP. The WPP was approved and signed by the Steering Committee in January of 2016 and accepted by EPA in February of 2016.

Routine ambient water quality data are collected quarterly by the TCEQ as part of the CRP program at one site (11576) in the watershed. As part of TSSWCB project 14-57, Extension and H-GAC conducted a 10-month water quality monitoring task that included nine monthly routine monitoring sites and four targeted sites in the watershed. This project will continue water quality monitoring, starting in year 2, to support adaptive implementation of the WPP.

Through the WPP development process, stakeholders identified three categories of potential nonpoint sources of bacteria in the watershed: urban, on-site wastewater, and agricultural. SELECT was utilized to estimate distributions and the degree of contribution of these potential pollutant sources within the watershed. Management measures were identified to address each of the potential sources. The timeline for full implementation of management measures identified in the Mill Creek WPP is 10 years. This proposal is in support of the implementation process.

An active and involved stakeholder group is essential for successful implementation of the Mill Creek WPP. Communication among project stakeholders and agency partners must be actively maintained to make progress and sustain momentum. Collaborative efforts among project partners will be essential to implement management measures for all three key source categories with specific emphasis on measures identified in Tables 8.1 and 8.2 of the WPP. Substantial emphasis also will be needed on education and training to enable all stakeholder groups and agency partners to work effectively toward full implementation of the Mill Creek WPP and ultimately achieve the water quality goals that have been established. Extension will facilitate and promote active stakeholder involvement and agency cooperation in the implementation of the Mill Creek WPP through this project.

Project Narrative

General Project Description (Include Project Location Map)

Extension, utilizing an Extension Program Specialist, will continue to facilitate the Mill Creek Watershed Partnership through coordination with all key stakeholder groups (cities, counties, agricultural groups, local businesses, HOAs, etc.) and partner agencies (H-GAC, NRCS, SWCDs, TCEQ, etc.). This will include organizing and conducting quarterly public meetings with the Partnership Steering Committee, as well as other planning and implementation meetings, as necessary and appropriate. Extension will promote public participation in meetings, events, and implementation activities through extensive use of various communication mechanisms, including a semi-annual newsletter, news



releases, radio and other mass media, the project website, and direct telephone, mail and email contact.

Extension will facilitate collaborative efforts among project partners to implement management measures for all three key categories of nonpoint source pollution: urban, wastewater and agricultural, including specific emphasis on management measures identified in Tables 8.1 and 8.2 of the Mill Creek WPP. In particular, this will include working closely with city and county personnel, as well as local and regional state staff, SWCDs, and federal agency staff.

Extension will assist governmental and non-governmental organizations in the Mill Creek watershed with acquisition of resources to enable WPP implementation.

This will include the identification of potential funding sources and assistance with the development of proposals and plans of work to secure supplemental funding from both internal (local) and external (state, federal, etc.) sources, as well as tracking and reporting for successful projects, as appropriate.

Extension will facilitate and coordinate outreach and education activities in the watershed to promote implementation of recommended management measures. This will include active use of local media outlets (newspapers, newsletters, regional magazines, radio, etc.) to communicate project planning efforts and activities, and development and dissemination of factsheets and other educational resources at public events through the project website. Extension will also facilitate and/or conduct a wide range of targeted educational programs consistent with the WPP including: a Texas Watershed Steward Training, Lone Star Healthy Streams workshop, GreenGrowth workshops, Master Gardener/Master Naturalist Programs, Sports and Athletic Field Education, septic system workshops, agricultural nutrient management education, livestock grazing management education, and feral hog management through TSSWCB Project 14-12 entitled *Enhancing Feral Hog Management Through Statewide Implementation of Lone Star Healthy Streams*.

The sampling program initiated to support the development of the WPP will be continued through this project by retaining routine bi-monthly sites and targeted sites. In addition to the routine bi-monthly sampling, sites will be sampled twice per year during wet-weather periods. The TCEQ will continue to monitor the routine ambient monitoring location quarterly under the CRP. Extension will work with H-GAC to collect and analyze samples, track changes in water quality identified through monitoring, communicate results to stakeholders, and facilitate adaptive management activities to continue progress toward addressing nonpoint source water quality concerns in the watershed.

Prop	osed Monit	toring Loca	tions		rage of or 14
Site	Site ID	TCEQ ID	Lat_dd	Lon_dd	Description
8	EMC-4	21585	30.039449	-96.413137	East fork Mill Creek at Bleiblerville Rd. About 1.5 km northwest of TCEQ station ID 20133.
7	EMC-6	21584	29.959612	-96.320151	East fork Mill Creek at FM 159/Old Nelsonville Rd, 1.5 km west of intersection of Koy Rd and FM 159.
6	WMC-4a	21582	29.9557127	96.4276336	West Mill Creek at Tiemann Rd, east of Industry.
5	WMC-6	21581	29.935733	-96.360328	West Fork of Mill Creek approximately 7.7 km west of the Mill Creek Rd and Kuykendall Rd
4	SSC-1	21580	29.921135	-96.301334	Sandy Creek at Mill Creek Rd 4.3KM west and 2.9 km south of Bellville
3	20131-A	21579	29.89679	-96.25499	Mill Creek at FM 2429 5.13 km upstream of SH 36 and 5.25 km downstream of Mill Creek Road at approximately 5.78 km south of the City of Bellville in Austin County
2	BC-1	22013	29.909526	-96.251110	Little Boggy Creek at Hwy 36 south of Bellville at FM 2429, 1.8 km southwest of Hwy 36, south of Bellville
1	MC-2	21577	29.869637	-96.155232	Mill Creek at FM331, 5.7 kilometers south of Burleigh

^{*}Targeted monitoring sites

Tasks, Objec	tives and Schedule	es						
Task 1	Project Administr	ation						
Costs	Federal	Federal \$30,000 Non-Federal \$24,723 Total \$54,723						
Objective	· ·		dinate and monitor all ion and preparation of	•	under this proj	ect including		
Subtask 1.1	QPRs shall docur	nent all activit	ic quarterly progress ries performed within er. QPRs shall be dist	a quarter and shal	l be submitted	by the 15 th of		
	Start Date		Month 1	Completion I		Month 32		
Subtask 1.2			ing functions for pro VCB at least quarterl	•	submit approp	oriate		
	Start Date		Month 1	Completion I	Date	Month 32		
Subtask 1.3	discuss project ac	tivities, project velop lists of a	n meetings or conference schedule, communication items needed f	ication needs, deliv	verables, and o	ther requirements.		
	Start Date	•	Month 1	Completion I	Date	Month 32		
Subtask 1.4	Extension will develop a Final Report that summarizes activities completed and conclusions reached during the project and discuss the extent to which project goals and measures of success have been achieved.							
	Start Date Month 1 Completion Date Month 32							
Deliverables	Reimbursem		. I necessary documen and hard copy format	• •	format.			

Tasks, Objec	tives and Schedules								
Task 2	Quality Assurance	Quality Assurance							
Costs	Federal \$4,000	Federal \$4,000 Non-Federal \$0 Total \$4,000							
Objective		ectives (DQOs) and quality equality are generated throu		(QA/QC) activiti	es to ensure data				
Subtask 2.1	H-GAC will develop a (Requirements for Quality Quality Management Placonsistent with the guide Volume 1: Physical and Volume 2: Methods for ([Consistency with Title: Laboratory Accreditatio	QAPP for activities in Task 2 by Assurance Project Plans (an. All monitoring procedure lines detailed in the TCEQ Chemical Monitoring Meth Collecting and Analyzing Bis 30, Chapter 25 of the Texas an and Certification, which of Laboratory Accreditation C	2 consistent with the <i>QA/R-5</i>) and the <i>Ts</i> res and methods present and methods present accordance water Quantum ods for Water, Sediological Assemblas Administrative Codescribes Texas' ap	SSWCB Environmescribed in the Quality Monitoring Is iment, and Tissue ge and Habitat Description de, Environment proach to implement	nental Data APP shall be Procedures, e (RG-415) and Pata (RG-416). al Testing menting the				
	Start Date	Month 1	Completion D	ate	Month 27				
Subtask 2.2		a Council (H-GAC) will imp		ed QAPP. H-GA	C will submit				
	revisions and necessary amendments to the QAPP as needed.								
	Start Date Month 14 Completion Date Month 27								
Deliverables	QAPP approved by TSSWCB and EPA in both electronic and hard copy formats.								
	 Approved revisi 	ons and amendments to QA	PP, as needed.						
	 Data of known a 	and acceptable quality as rep	orted through Task	x 3.					

Tasks, Object	Tasks, Objectives and Schedules						
Task 3	Conduct water quality m Creek Watershed Protect	onitoring and data analysistion Plan.	to support adaptive in	mplementation	of the Mill		
Costs	Federal \$46,00	0 Non-Federal	\$0	Total	\$46,000		
Objective	1	onitoring and data analysistion Plan, including evaluate.		•			
Subtask 3.1	selected parameters, ana	stream water quality monitoring data, and will transfer monitoring data.	d participate in partne	rship meetings	to share and		
	Start Date Month 3 Completion Date Month 27						
Deliverables	Technical report	ta submitted to watershed of s detailing water quality Partnership meetings, as ne		Q SWQMIS.			

Tasks, Objec	tives and Schedules						
Task 4	Facilitate and Promote W	atershed Protection Plan In	nplementation.				
Costs	Federal \$170,00	0 Non-Federal	\$140,101 To	otal \$310,101			
Objective	Facilitate the Mill Creek	Watershed Partnership and	promote stakeholder imple	ementation of the WPP.			
Subtask 4.1	coordinator and will be re reporting requirements an Watershed Coordinator R	extension will employ an Extension Program Specialist who will serve as full-time watershed coordinator and will be responsible for general oversight and coordination of all project activities, exporting requirements and direction of educational activities. The watershed coordinator will attend the Vatershed Coordinator Roundtable meetings and provide updates on the project to various local, ounty, state, and regional entities (basin steering committee meetings, TSSWCB meetings/conferences, to.)					
	Start Date	Month 1	Completion Date	Month 32			
Subtask 4.2	Mill Creek Watershed Pro 2 stakeholder mee 1 annual Stream Coordinate with coprograms	lata collection (HGAC) and	blic Partnership meetings. to occur with annual stread distribute results to attende	am cleanup event) dees at meetings and			
	Start Date	Month 1	Completion Date	Month 32			
Subtask 4.3	Extension will assist governmental and non-governmental organizations in the watershed in identification and acquisition of resources (financial and technical) to enable WPP implementation. Extension will actively seek and pursue funding opportunities and work with partners to develop grant proposals. The watershed coordinator will coordinate these activities with state and federal agencies, as appropriate.						
	Start Date	Month 1	Completion Date	Month 32			

Subtask 4.4	maintenance of a project v Streams, Texas Well Own outreach activities as iden	website, educational progra ter Network), etc. Extension tified in the Mill Creek Wi	project, including mass med ams (Texas Watershed Stev on will facilitate and coordi PP tables 8.1 and 8.2, as we ies identified in the WPP a	ward, Lone Star Healthy nate education and ell as other management		
	watershed coordinator.	1				
	· •	• • •	program as appropriate by	county)		
	l	Streams Workshop (1/yr)				
	 Displays at local of 	events (2/yr)				
	• Newsletter (2/yr)					
	Start Date	Month 1	Completion Date	Month 32		
Subtask 4.5		C	nilestones established in the	•		
	H-GAC to assess water qu	uality data, and provide up	dates to stakeholders regard	ding the project.		
	Start Date Month 1 Completion Date Month 32					
Deliverables	Agendas and attendance lists from Partnership meetings, educational workshops, and other events.					
	Documentation of resimplementation.	source opportunities identi	fied, applied for, and obtain	ned to support WPP		
	Newsletters, press re	leases, and other publication	ons developed in support of	f the project.		

Project Goals (Expand from Summary Page)

- Coordinate implementation of the Mill Creek WPP.
- Inform, educate and encourage active involvement of the public in implementation of the WPP.
- Communicate water quality conditions to the public and Partnership in order to support adaptive management of the WPP.
- Facilitate the Partnership and foster coordinated activities and actions between and among the cities, counties, H-GAC, TSSWCB, local SWCDs, and NRCS.
- Conduct Partnership meetings to provide regular updates on progress, and seek stakeholder input and recommendations on needed activities.
- Develop and/or assist with the development of proposals to acquire funding for implementation of management measures, and with managing and tracking implementation projects.
- Conduct and/or facilitate education and training programs in order to encourage adoption of BMPs.
- Work with state and federal agencies, as appropriate, to secure and optimize the delivery of technical and financial resources for the watershed.
- Track and document implementation efforts to assess progress toward achieving milestones established in the WPP.
- Facilitate public awareness and participation in planning and implementation efforts by actively updating website content and producing a semi-annual newsletter.

Measures of Success (Expand from Summary Page)

- Technical assistance provided to the Partnership through identification and acquisition of resources and funding for implementation efforts.
- Communication of water quality data to the public and Partnership, and use of those data to evaluate progress in achieving water quality restoration.
- Increased knowledge and adoption by citizens, landowners and agricultural producers of management measures identified in the WPP as a result of outreach and education efforts.
- Development and dissemination of factsheets, news releases, newspaper and magazine articles, and a semiannual newsletter to maintain contact with Mill Creek stakeholders and promote implementation of the WPP.

- Active management of the project website to announce education and training events, provide project updates and disseminate educational resources to stakeholders.
- Provide regular updates to the Mill Creek Partnership that describe modifications/updates to goals and
 milestones, and documents success in achieving goals and milestones for water quality improvement and load
 reductions.

2012 Texas NPS Management Program Reference (Expand from Summary Page)

Components, Goals, and Objectives

Long-Term Goal One– Protect and restore water quality affected by NPS pollution through assessment, implementation, and education.

- Objective 1 Focus NPS abatement efforts, implementation strategies, and available resources in watersheds and aquifers identified as impacted by nonpoint source pollution.
- Objective 3 Support the implementation of state, regional, and local programs to reduce NPS pollution, such as the implementation of strategies defined in TMDL I-Plans, WPPs, and other water planning efforts in the state.
- Objective 6 Develop partnerships, relationships, memoranda of agreement, and other instruments to facilitate collective, cooperative approaches to manage NPS pollution.

Objective 7 – Increase overall public awareness of NPS issues and prevention activities.

Short-Term Goal Two – Implementation

Objective D – Implement TMDL I-Plans, WPPs, and other state, regional, and local plans developed to restore and maintain water quality in water bodies identified as impacted by NPS pollution.

Short-Term Goal Three - Education

- Objective A Enhance existing outreach programs at the state, regional, and local levels to maximize the effectiveness of NPS education.
- Objective B Administer programs to educate citizens about water quality and their potential role in causing NPS pollution.
- Objective D Conduct outreach through the CRP, AgriLife Extension, SWCDs, and others to enable stakeholders and the public to participate in decision-making and provide a more complete understanding of water quality issues and how they relate to each citizen.
- Objective G Implement public outreach and education to maintain and restore water quality in water bodies by NPS pollution.

Estimated Load Reductions Expected (Only applicable to Implementation Project Type)

N/A

EPA State Categorical Program Grants – Workplan Essential Elements *FY 2014-2018 EPA Strategic Plan* Reference

Strategic Plan Goal – Goal 2 Protecting America's Waters

Strategic Plan Objective – Objective 2.2 Protect and Restore Watersheds and Aquatic Ecosystems

Part III – Financial Information

Budget Summary									
Federal	\$	250,000		% of total project		60%			
Non-Federal	\$	164,824		% of total project		project	40%		
Total	\$	414,824			Total		100%		
Category		Federal		Non-Federal			Total		
Personnel		\$	\$ 116,116		\$	77,654	\$	193,770	
Fringe Benefits		\$	\$ 37,981		\$	21,740	\$	59,721	
Travel		\$	\$ 8,252		\$	0	\$	8,252	
Equipment		\$	0		\$	0	\$	0	
Supplies		\$	1,100		\$	0	\$	1,100	
Contractual		\$	50,00	0	\$	0	\$	50,000	
Construction		\$		0	\$	0	\$	0	
Other		\$	10,46	4	\$	11,712	\$	22,176	
Exempt		\$		0	\$	0	\$	0	
Total Direct Costs		\$	223,91	3	\$	111,106	\$	335,019	
Indirect Costs (≤ 15%)		\$	26,08	7	\$	31,110	\$	57,197	
Unrecovered IDC		\$		0	\$	22,608	\$	22,608	
Total Project Costs		\$	250,00	0	\$	164,824	\$	414,824	

Budget Justification (Federal)				
Category	Total Amount	Justification		
Personnel	\$ 116,116	Project director (1.2 month effort yrs 1-2.25 years = \$15,225) 1-3 Program specialists (27 month effort yrs 0.5-2.25 =\$94,691), Student worker (summer semester 20 hours at \$10/hr up to 10 weeks = \$2000); Student worker/assistant to Watershed Coordinator (Fall 2018 and Spring 2019 Semesters – 28 weeks 15 hrs / week @ \$10 /hr = \$4,200)		
Fringe Benefits	\$ 37,981	Fringe benefits are calculated at a rate of 18% of salary to cover FICA, UCI, WCI, and retirement. An additional \$647/month (prorated by % FTE) is calculated for group medical insurance. Estimates are in accordance with TAMUS Office of Budget & Accounting procedures established for FY2015.		
Travel	\$ 8,252	Travel within the watershed to perform project tasks (up to 41 trips per year x 2 yrs x mileage @ the state rate for trips ranging from 100 miles roundtrip = \$4,428); Participate in state meetings (Clean Rivers Program Basin Steering Committees, the, Texas Watershed Coordinator Roundtables, and the TSSWCB Regional Watershed Coordination Steering Committee); and support professional development for Program Specialists (national and state conferences) up to 6 trips x 1 individual x \$83/night for lodging, transportation (either by state vehicle, rental, or airfare) and per diem (\$46 (\$3,824)		
Equipment	\$ 0			
Supplies	\$ 1,100	Tablet and protective accessories and printer with cartridges (\$1,000); Cell phone (\$100)		
Contractual*	\$ 50,000	Water quality monitoring by Houston-Galveston Area Council (H-GAC)		
Construction	\$ 0			
Other	\$ 10,464	Equipment and facility rental (\$2,000); Cell phone service (\$1,200); Office rental (\$4,584); Conference fees (\$1,000); Advertising (\$1,464); Program materials and printing (\$216)		
Indirect	\$ 26,087	Calculated at 15% of Modified Total Direct Cost		

Budget Justification (Non-Federal)				
Category	Total Amount	Justification		
Personnel	\$ 77,654	Project director (1.68 month effort over 1-2.25 years = \$10,658) Washington County Extension Agent (2 month effort over 1-2.25 = \$13,800) Austin County Extension Agent (1.83 month effort over 1-2.25 years 2 = \$12,633) District Extension Administrator (=1.66 month effort over 1-2.25 = \$16,727) Extension Regional Program Leader (1.66 month effort over 1-2.25 = \$23,836)		
Fringe Benefits	\$ 21,740	Fringe benefits are calculated at a rate of 18% of salary to cover FICA, UCI, WCI, and retirement. An additional \$647/month (prorated by % FTE) is calculated for group medical insurance. Estimates are in accordance with TAMUS Office of Budget & Accounting procedures established for FY2015.		
Travel	\$ 0			
Equipment	\$ 0			
Supplies	\$ 0			
Contractual*	\$ 0			
Construction	\$ 0			
Other	\$ 11,712	Office rental for 1 year (\$8,712); Facility rental (\$3,000)		
Indirect	\$ 31,110	28% of Non-Federal Modified Total Direct Costs Direct Costs		
Unrecovered IDC	\$ 22,608	13% Unrecovered Indirect Costs (Difference between Extension IDC rate of 28% and allowed IDC rate of 15%)		

Contractual Budget Justification (Federal): H-GAC					
Category	Total Amount		Justification		
Personnel	\$	20,082.43	Project Director (0.01 FTE - yr. 1) plus 1-4 Administrative Support Staff (0.01 FTE yr. 1) = \$4,122 2 Sr. Environmental Planners (0.07 FTE yr) = \$4,761.60 2 Environmental Planners (0.24 FTE yr) = \$11,198.83		
Fringe Benefits	\$	9,470.87	Fringe benefits are calculated at a rate of 47.16% of salary to cover FICA, UCI, WCI, group medical insurance and retirement. Estimates for 2017 are in accordance with H-GAC's Finance Department procedures as calculated and approved by the Texas WorkForce Commission.		
Travel	\$	1,493.60	Number of trips to the field = 12 Estimated cost per trip = \$110 (minivan + gas only). Mileage to attend 2 WPP meetings &/or recon during contract period = \$86.80 per trip.		
Equipment	\$	0			
Supplies	\$	704.00	Calibration chemicals & sampling/chain of custody supplies = \$204 Office supplies = \$500		
Contractual*	\$	5,040.00	Lab Costs for routine monitoring - \$840 per event		
Construction	\$	0			
Other	\$	9,789.78	Rent = \$2,963.77 General operating costs not covered by indirect = \$2,666.61 GIS and network allocation = \$3,409.40 Maintenance and Repair of field equipment = \$250 Postage/Delivery = \$200 Employee Development = \$300		
Indirect	\$	3,419.32	H-GAC's current indirect rate is 11.57%		